

Headquarters U.S. Air Force

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DoD BMO and AF Biometrics Partnership



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**Michael Kennick
ESC/DIWS
Biometric Consortium
Conference
Crystal City, VA
24 Sep 2002**



Air Force Stakeholders

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- Air Staff (AF/XICC)
 - Policy
- Air Force Communications Agency (AFCA/WFP)
 - Lead Command
 - Participates in DoD BMO Activities
 - Requirements / Funding
- Electronic Systems Center(ESC/DIW)
Information Assurance Product Area Directorate
 - Implementing Command
 - Supports DoD BMO Activities
 - Performing Biometrics Quick Looks and Pilots
 - Provide Technical Solutions



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Is the AF Enterprise ready for Biometrics?

At first glance it would seem so...

- **Big challenge**
 - **Biometrics must become a fully integrated component within a complex enterprise network environment**
 - **There are very few solutions that meet this challenge today**
- **Biometric technology is not the issue**
 - ✓ **It's the integrated solution and business processes**

***People...Processes...Technology
Keys to Transformation***



AF support to the DoD BMO

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- **Perform technology evaluations**
- **Tech demonstration / pilot team member**
- **Documentation contributor / reviewer**
- **Conduct risk assessments**
- **Formulate recommendations for future technology demonstrations / architectures**
 - ✓ **ESC/DIW proposed conceptual distribution architecture (Jul02)**
 - ✓ **Leveraging on DoD Directory Services Infrastructure - Implementation Plan (ECD 16Dec02)**





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Physical Access “Quick Look”



Situation / CONOPS

Physical Access

- Leased Commercial Office Space,
San Antonio, TX
- Limited Access
- Use existing access control system as is

• Accountability

Outcomes

- Cutting Edge Technology
 - **First time reader on card has been used in a working security system.**
- Physical Access to 2 entry points
- Users do not need to remember PIN
- Two Factor Verification

Technical

Physical Access

- Biometric Sensor on Card
- Smartcard
- Biometrics enable existing physical access control system
- Ten templates on chip

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Physical Access “Quick Look”

cont.

Situation / CONOPS

- Physical Access to SCIF
- Track Access and Entry Requirements
- Central Monitoring of Access Attempts
- 64 Personnel Using Area

Technical

- Iris Scanning Physical Access (Iridian)
 - Main Door Iris into SCIF
 - Two factor authentication through use of Contact-less Token
- Iridian IrisAccess 2200

Outcomes

- Physical Access to secure facility
- Two Factor Verification
 - Contact-less Token
 - Biometric
- **First time that contact-less and IrisAccess have been integrated together.**
- Increased Security

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Physical Access “Quick Look”

cont.

Situation / CONOPS

- Base Network Operations Center
- Restricted Access
- 50+ Users needing access to the facility



Technical

Physical Access

- 1:1 Methodology with PIN
- Ingress Only
- Single Access Control System that manages both hand geometry and fingerprint.
(Lenel, Inc.)

Outcomes

- Cutting Edge Technology
 - **First time these units have been integrated into one security system**
- Physical Access system for 6 entry points
- Two Factor Verification
 - Four digit access code

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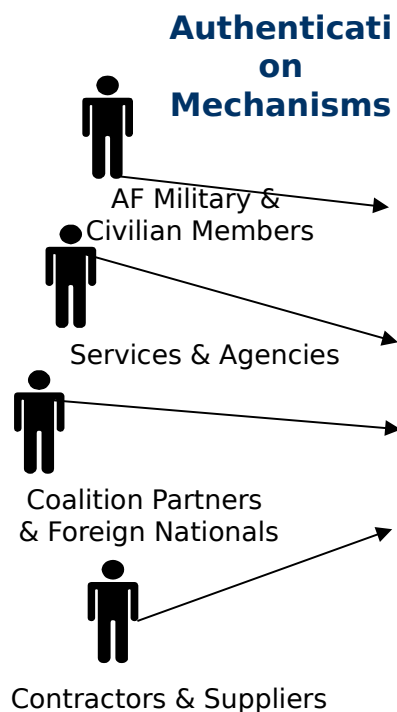


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Logical Access Integrated Components

...Biometrics as a Key Enabler

User Communities

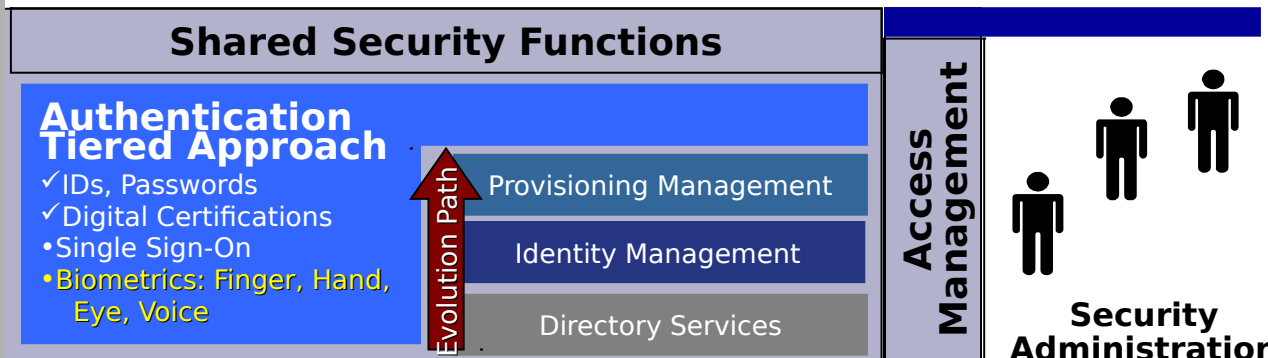


Presentation Layer

Web Based

Migration/Adoption

Legacy Systems



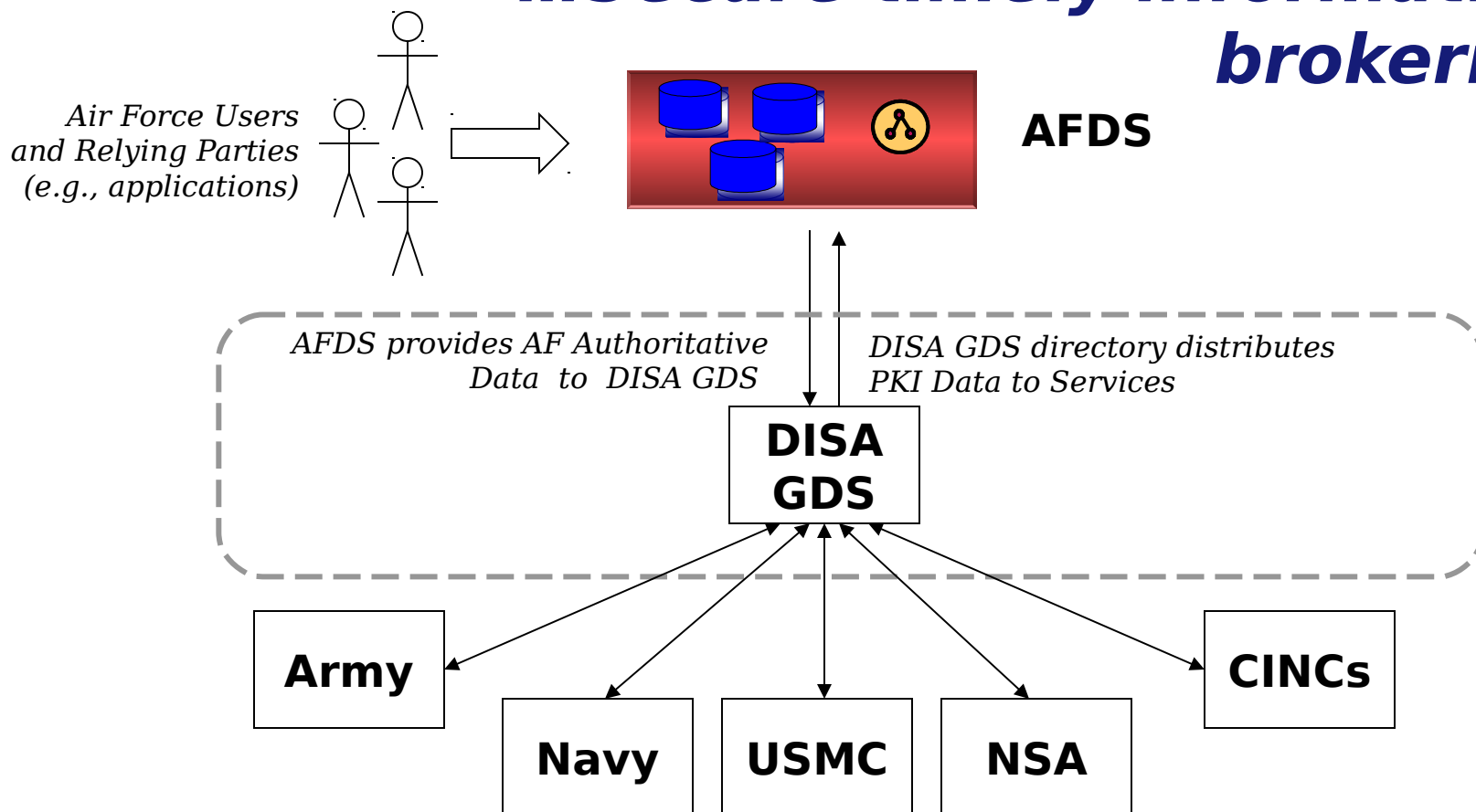
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DoD Directory Services Infrastructure

~~...Secure timely information brokering~~





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